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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/447,227	11/22/1999	MARK C. SHULTS	DEXCOM.008DV1	3546
	7590 05/26/200 RTENS OLSON & BE	EXAMINER		
2040 MAIN ST		NASSER, ROBERT L		
FOURTEENTH FLOOR IRVINE, CA 92614			ART UNIT	PAPER NUMBER
			3735	
			NOTIFICATION DATE	DELIVERY MODE
			05/26/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com eOAPilot@kmob.com

	Application No.	Applicant(s)			
	09/447,227	SHULTS ET AL.			
Office Action Summary	Examiner	Art Unit			
	ROBERT L. NASSER	3735			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MENT OF THE M	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinuity will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>09 M</u>	action is non-final.				
Disposition of Claims					
4) ☐ Claim(s) 33,34,38,41,42,48,49,54-66 and 70-8 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 33,34,38,41,42,48,49,54-66 and 70-8 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.	n.			
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se cion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 33, 34, 38, 41, 42, 48, 49, 56-66, and 70-83 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hogan Esch et al 5372133 in view of Picha 5706807 and Allen et al 5322063. Claim 34 is rejected in that Hogan-Esch teaches a method of monitoring glucose by implanting a device as shown in figures 2 and 4 into a host, where the device includes a housing 2, a convexly protruding active sensing surface 7, and a membrane 13, 18, and 19 directly in contact with the sensing surface. It does not include the angiogenic layer. However, Picha teaches that it is known to encase an implanted sensor in a layer that is angiogenic or promotes vascularization, to enhance the measurement process, as described in columns 5 and 6. Hence, it would have been obvious to modify Hogan Esch to use such a layer, to improve the measurement process. The combination of Hogan-Esch and Picha has a gap between the sensing region and the membrane. However, Hogan Esch provides no specific reason why there is a gap. Allen is selected from a myriad references that show a membrane directly on the sensing region. As such, it would have been obvious to modify the combination to eliminate the gap, as it is merely the substitution of one known configuration for another. Alternatively, there are a finite number of ways to configure a membrane relative to the sensing surface. One is with a gap and one is without a gap. Hence, it would have been obvious to try the configuration of Allen. Claim 33 is rejected in that the device of Hogan Esch is wholly implanted. Claim 38 is rejected in that in figure 2, the membrane is "over" the electrode 10. Alternatively, in figure 4,

membrane 30 is over a convexly curved membrane 10. Claim 41 is rejected in that the device of Hogan Esch is wholly implanted. Claim 42 is rejected in that there is a transmitter in the device of Hogan Esch. Claims 48 and 49 are rejected in that the sensing membrane contains an enzyme. With respect to claims 56-58, it is the examiner's position that given that the device of the combination has an angiogenic or vascular promoting layer, it would measure glucose accurately for the claimed time periods. With respect to claims 59-61 the examiner notes that it is well known to explant the device when the useful life of the device is over. Claim 62 is rejected in that the layer of the combination would stabilize, as recited. Claim 63 is rejected in that the foam of Picha is a silicone elastomer (see column 3, line 61). Claim 64 is rejected in that the vascularization promotion layer stimulates growth. Claim 65 is rejected in that the sensor is enzymatic.). With respect to claims 66 the examiner takes official notice that non-enzymatic sensors are known glucose sensors. Hence, it would have been obvious to modify Hogan Esch to use a non-enzymatic sensor, as it is merely the substitution of one known equivalent sensor for another. Claims 70-79 are rejected for the reasons given above. Claims 80 and 81 are rejected in that the electrodes can measure enzymatic or non-enzymatic signals. With respect to claims 82-83, the examiner takes official notice that all of the sensors recited are known glucose sensors. Hence, it would have been obvious to modify Allen to use any of the recited sensors, as it is merely the substitution of one known equivalent sensor for another.

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Claims 54 and 55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hogan Esch in view of Picha and Allen, as applied to claims 33, 34, 38, 41, 42, 48, 49, 56-66, and 70-83 above, further in view of Rhodes WO 92/13271. Rhodes further teaches an alternate membrane assembly that has an electrolytic layer. Hence, it would have been obvious to modify the combination to use such a membrane with an electrolyte layer, as it is merely the substitution of one known equivalent membrane for another.

Applicant's arguments filed 3/9/2009 have been fully considered but they are moot in view of the new grounds of rejection.

The examiner notes that applicant stated that the sensing surface in figure 2 of Hogan Esch has a series of protrusions and inlets. However, it is the examiner's position that the sensing surface is elements 7 and 8, and the elements with the protrusions and inlets is the membrane 13.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT L. NASSER whose telephone number is (571)272-4731. The examiner can normally be reached on m-f 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor II can be reached on 571 272-4730. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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